

DoMORE[®]



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DOOSAN LAUNCHES DOZERS

DoMORE®

Summer 2022 / Vol. 12, No. 2

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DOOSAN®



INTRODUCING NEXT-GENERATION DOOSAN MACHINES

AVAILABLE FOR THE FIRST TIME IN NORTH AMERICA: DOOSAN DOZERS

Coming off of an exciting 2021, Doosan Infracore North America hit the ground running in 2022. The year began with an extension of the -7 Series wheel loader line and three new 200 size class models. Next, the all-new -7 Series mini excavators made their debut. This summer, the first Doosan® dozers will arrive in North America. Finally, Doosan is launching its -7 Series crawler excavators, and they will soon be available at a dealer near you. Curious to learn more about these new products? Check out the information in the following pages and visit the Doosan website for additional details.



DOOSAN INTRODUCES ITS FIRST DOZER

Doosan is expanding its construction equipment lineup with a new category: dozers. Doosan® dozers will complement other Doosan equipment on construction jobsites for earthmoving projects. The first model — the 122-horsepower DD100 — will be available this summer. A second, larger model will make its debut in 2023. Both new models will deliver powerful pushing performance, fuel efficiency and all-day operator comfort.

SPECS

- + Horsepower: 122 hp (91 kW)
- + Operating weight: 25,309 lb. (11,480 kg)
- + Drawbar pull: 33,721 lbf. (15,296 kgf)
- + Track length: 7 ft. 7 in. (2.3 m)
- + Max. travel speed: 5.7 mph (9.2 km/hr)
- + Blade capacity: 3 yd³ (2.3 m³)
- + Blade height: 3 ft. 7 in. (1.1 m)
- + Blade width: 8 ft. 10 in. (2.7 m)
- + Blade angle: 22.5°

Preliminary specs, subject to change.

VISIBILITY

- + Standard rearview camera
- + Minimized front pillars, maximum glass and incline precleaner
- + LED lights to illuminate your work area in low-light areas or times of the day
- + Front, rear and side wiper blades



NEW FLEET MANAGEMENT OFFERING FROM DOOSAN

Doosan now offers a new fleet management service to further protect your investment in Doosan® construction equipment. The new telematics monitoring service is called Smart X-Care, and the service is available for new Doosan machines equipped with the DoosanCONNECT® Telematics system. Working from the Doosan machine monitoring center in the Atlanta area, Doosan employees will help manage your fleet and alert you if the machine has a critical machine fault code, needs routine part replacements and is nearing the warranty expiration.

SMART X CARE



TECHNOLOGY

- + 8-inch Smart Touch display
- + DoosanCONNECT® Telematics system
- + Optional 3D Machine Guidance system, 3D Machine Control

SAFETY

- + Automatic cut-off sensors to stop the dozer when the operator stands up

DURABILITY

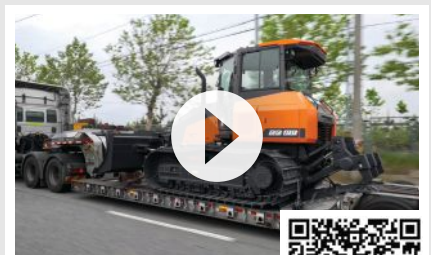
- + Standard dual/single flange-type roller with several track guard options
- + Convenient maintenance access points

VERSATILITY

- + Optional rear ripper attachment

VISIT NA.DOOSANEQUIPMENT.COM/DOZER FOR MORE DETAILS ABOUT THE NEW LINE OF EARTHMOVING EQUIPMENT.

See model specifications for details at na.DoosanEquipment.com



Scan the code to see the new Doosan DD100 dozer in action!

ALL-NEW, ALL-DOOSAN MINI EXCAVATORS

Doosan introduces its all-new line of next-generation -7 Series mini excavators. The initial launch includes four models, with more mini excavators to be announced in the coming months.

These completely new mini excavators are designed and manufactured by Doosan. They are all equipped with common features, including Doosan® diesel engines, diagnostics and telematics. The first new excavators include the zero tail swing DX27Z-7, DX35Z-7 and DX50Z-7, as well as the reduced tail swing DX55R-7. The new Doosan DX27Z-7 expands the mini excavator lineup with a model that appeals to customers who need a smaller machine.

MINI EXCAVATOR MODELS

- DX27Z-7 **NEW**
- DX35Z-7 *replaces the DX35-5*
- DX50Z-7 *replaces the DX50-5K*
- DX55R-7 **NEW**

Additional -7 Series mini excavator models will be available later this year.

VERSATILITY

- + Quick-coupler-ready design with quick-coupler hydraulics installed at the base of the arm
- + Thumb-ready arm that includes durable thumb mounts integrated into the arm
- + Adjustable flow rates to help optimize the response of hydraulic attachments, including thumbs, hydraulic breakers and augers
- + Backfill blade with blade float allows the blade to follow the contours of the ground without operator input



COMFORT

- + Enclosed cab with best-in-class air conditioning
- + Full-color LCD monitor
- + Bright LED lamps
- + Rearview camera option

TELEMATICS

- + DoosanCONNECT® Telematics standard on all -7 Series models
- + The same telematics system found in large Doosan construction equipment



SERVICEABILITY

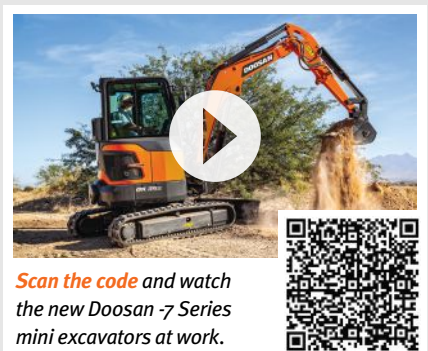
- + Swing-open gate and side-access hood
- + Easy access that makes oil maintenance a breeze

PERFORMANCE

- + A large, integrated counterweight that enhances lift-over-side capacity
- + Powerful digging and breakout forces

VISIT NA.DOOSANEQUIPMENT.COM/-7MINI FOR MORE DETAILS ABOUT THE NEW -7 SERIES MINI EXCAVATORS.

Features vary by model. See model specifications for details at na.DoosanEquipment.com



Scan the code and watch the new Doosan -7 Series mini excavators at work.

CHARGE FORWARD WITH NEW DOOSAN CRAWLER EXCAVATORS

Next-generation Doosan® crawler excavators will soon be available in North America. These new excavators feature enhancements in power, performance and serviceability. They also offer operators unmatched visibility to the jobsite for increased productivity and safety. As part of the -7 Series crawler excavators, Doosan is now offering a reduced tail swing iteration of its popular 35-metric-ton machine, the DX350LCR-7. The DX225LC-7 (pictured right) was the first new -7 Series crawler excavator available from Doosan in North America.

CRAWLER EXCAVATOR MODELS

- DX140LC-7
- DX140LCR-7
- DX170LC-7
- DX200LC-7 *replaces the DX180LC-5 NEW*
- DX225LC-7
- DX225LC-7X **NEW**
- DX235LCR-7
- DX255LC-7
- DX300LC-7
- DX350LC-7
- DX350LCR-7 **NEW**
- DX420LC-7
- DX490LC-7
- DX530LC-7
- DX800LC-7 **NEW**
- DX1000LC-7 **NEW**

PERFORMANCE

- + Higher digging forces
- + Increased lifting capacities
- + Fine swing mode
- + No DPF required to meet emissions standards
- + Optional dozer blade (select models)

MACHINE-ASSISTED TECHNOLOGIES

The fully electro-hydraulic control system on the new DX225LC-7X crawler excavator enables advanced machine guidance and machine control systems, including 2D and upgradable 3D grading systems.





VISIBILITY

- + Standard rearview camera
- + Optional side view camera
- + Optional 360-degree all-around-view (AVM) camera system
- + Optional ultrasonic sensors
- + Eight high-illumination LED lights

OPERATOR COMFORT

- + Keyless entry
- + Push-button start
- + 8-inch Smart Touch screen
- + Optional cooled and heated operator seat

FUEL EFFICIENCY

- + D-ECOPOWER feature that minimizes fuel consumption by optimizing the machine's hydraulic system*
- + Smart Power Control that can reduce fuel consumption by 5% to 7%

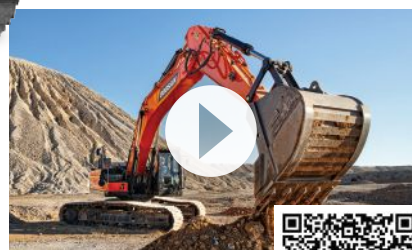
**Available for select Doosan excavators*

SERVICEABILITY

- + Centralized filters
- + Ground-level service access
- + Optional automatic lubrication system (select models)

VISIT NA.DOOSANEQUIPMENT.COM/-7CRAWLER FOR MORE DETAILS ABOUT THE NEW -7 SERIES CRAWLER EXCAVATORS.

Features vary by model. See model specifications for details at na.DoosanEquipment.com



Scan the code to see the new Doosan -7 Series crawler excavators at work.



MARSH CONSTRUCTION SERVICES ADDS SITE WORK.

COMPANY INFORMATION

Business: Marsh Construction Services

In business since: 2003

Location: Statesboro, Georgia

Doosan equipment: DL220-5 wheel loader

Doosan dealer: Synergy Equipment

Timmy and Travis Marsh worked for decades in Georgia and South Carolina. The brothers performed a variety of contracting work and specialized in vertical construction — metal buildings and red-iron projects.

Business was good for the Marsh family, but opportunities to grow the company by adding new services kept the brothers thinking about expanding. Approximately five years ago, the brothers rebranded their company as Marsh Construction Services. They decided to add site preparation to their portfolio, but knew they needed some outside expertise in this area. Enter Jason Dunn. With more than 35 years of construction experience, Jason brought a wealth of knowledge about site work and earthmoving to the company.

Marsh Construction Services is a licensed contractor authorized to perform work on underground utilities in both South Carolina and Georgia. Versatility is key to the company's success. The company's experience includes a variety of services: land clearing, underground construction,

worksite development for new commercial projects, including restaurants and hotels, and an expansion for a local RV park.

Jason oversees the site development projects and manages a fleet of more than two dozen pieces of heavy and compact construction equipment, some wheeled and some tracked. When he joined Marsh Construction Services, he brought with him some ideas for ways the company could enhance its equipment, such as installing grade control on its dozers. Doing so helped the firm reduce wasted materials and fees as it embraced the new equipment technology that helped operators perform grading tasks more accurately.

SITE DEVELOPMENT 101

Much of the earthmoving equipment owned by Marsh Construction Services is operated by employees performing site development. Jason says each project is different, but for the most part, the company follows a standard process, save for larger projects for the Department of Defense or the Federal Aviation Administration. First is erosion control; then crews clear a property of existing buildings, trees or both. From there, Jason and his team start the development process by installing storm drainage, new water or sanitary and sewer, and whatever else the project requires. Next is the earthwork portion that may involve mass grading. If necessary, operators will dig ponds to obtain material for the grading or obtain it from another source and haul it to the jobsite.

"Once the foundation is in place, that's when we start the process of paving," Jason says. "Whether it's a large-scale parking lot or it's going to be an area that we develop or provide for a customer to build a vertical structure, you have to start everything from the ground up."

Final steps normally include curb and gutter work and stormwater runoff systems. The company installs signage, stripes the parking lot and landscapes the area.

SAVANNAH PORT EXPANSION

Savannah is home to one of the largest and busiest ports in the United States. It rivals



IT WAS ALMOST A MATCH MADE IN HEAVEN, AS FAR AS US NEEDING THAT WHEEL LOADER, BASED ON OUR CAPABILITIES.

— JASON DUNN /
Marsh Construction Services





Pictured above, left to right: Timmy Marsh, Jason Dunn and Travis Marsh of Marsh Construction Services

those found in Southern California and the Northeast. Tim Brady, CFO for Marsh Construction Services, says the construction in the Savannah area is nonstop. He says the greater Savannah area, as far as 75 miles from the city, is enjoying tremendous economic growth.

“There’s constant expansion and upgrading at the port,” Tim says. An increase in imports brought by container ships coming into the port is driving the growth. The proximity of the port to two interstate highways and two Class 1 railroads makes the Port of Savannah a popular hub for logistics.

In addition to the increase in Georgia port activity, there is a need for new warehouses to store incoming materials. Along Interstate 16, which connects Savannah to Macon, Georgia, and areas near Interstate 95, construction companies are clearing land and providing space for future storage. Additional developments will include commercial services that you’d expect along the interstate highways. All of this is welcome news for Marsh Construction Services.

According to a story that appeared in the *Atlanta Journal-Constitution* in April, logistics

jobs related to the Savannah port have doubled statewide in the past 20 years. The story also states that “billions in new infrastructure projects ... are in the works.” The goal of the Georgia Ports Authority is to grow its capacity “from 7.5 million shipping containers a year today to 9.5 million annually in the next three years.”

DEALER PARTNER

Much of the success that Marsh Construction Services has achieved derives from its knowledge of the construction industry, fleet management and adoption of new technologies for the company’s equipment. In addition, a strong partnership with their local equipment dealers plays an important role in its continued success. One of those dealers is Synergy Equipment in Savannah.

“The staff at Synergy has been very responsive, very accommodating,” Tim says. “We originally were renting equipment, which led to some leases. During the past year, we’ve converted a lot of the leases into purchases.”

Jason echoes Tim’s sentiments about the support from the employees at Synergy Equipment.

“They typically go out of their way to make sure that if we are in need of a piece of equipment, they find it and they provide it for us,” Jason says.

This partnership with Synergy Equipment led to an introduction to Doosan® construction equipment, namely a DL220-5 wheel loader. Jason’s operators tried the wheel loader and tested its lift and movement capabilities. They were curious how the machine would perform in the famous Georgia red clay.

“It was almost a match made in heaven, as far as us needing that wheel loader, based on our capabilities,” Jason says.

“The DL220-5 is a good intermediate-size machine, because we utilize a wheel loader more for moving pipe and precast concrete structures than for dirt. It’s far more efficient and practical than larger machines.”

An important feature of the wheel loader is its hydraulic quick coupler, which allows operators to change non-hydraulic attachments like buckets and pallet forks without leaving the cab.

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“The bucket and a quick coupler with pallet forks are paramount when you’re laying pipe,” Jason says.

“We use the wheel loader bucket to pick up dirt spoils or when we’re fine grading aggregate and need to pick up the excess.”

In addition to the machine’s versatility and size, Jason points to some other features that stand out.

“I like the view from the cab and the open sides, where the operator has virtually 360-degree vision plus the rearview camera,” he says. “The thing that all of the operators talked about once they figured it out was the downshift mode as you’re moving stockpile material; you’ve got the ability to turn it on and off. It kind of fits the operator and their speed, and that’s one feature that we know of that doesn’t exist on any other equipment that we own.

“The thing that stands out with the DL220-5 versus our other wheel loader is the efficiency

of the diesel exhaust fluid. It’s 50% less consumption than our other machine — that is a huge savings.”

MARSH’S BIGGEST PROJECT

The biggest construction project to date for Marsh Construction Services is a recently completed 15-acre Port Fuel Center, which Jason says kept the Doosan wheel loader busy.

“We had more than 3,000 feet of concrete pipe to install, and another 6,000 feet of water and sewer to install,” he says. “We hauled in over 100,000 cubic yards of material, over 400,000 square feet of concrete pavement and did close to 9,000 square feet of asphalt paving.

“We were a subcontractor to the prime contractor on the project, but they were great to work with, and hopefully, the project will be a success because it’s a large truck stop right in the heart of Georgia ports.”

ROC TRIP CONFIRMS DECISION

The opportunity to travel to Arizona and visit The Doosan Real Operation Center (The ROC) confirmed Jason’s decision to purchase the

DL220-5 wheel loader. He says that after having worked in the construction industry for more than 35 years, it was the first time he had ever been able to attend an event hosted by a manufacturer.

“I left there with not only a better understanding of the Doosan equipment, but also the comfort level of sitting in the seat and utilizing that piece of equipment for what it’s designed for,” Jason says.



Learn more about Marsh Construction Services and see footage of their projects at na.DoosanEquipment.com/Marsh



200 SIZE CLASS LOADERS NOW AVAILABLE

Doosan now offers three new -7 Series wheel loader models — the DL200-7, DL220-7 and DL250-7 — with standard bucket capacities between 2.6 and 3.3 cubic yards. Similar to the -7 Series wheel loaders that were launched in spring 2021, these next-generation Doosan® wheel loaders offer all-new redesigned cabs with first-class comfort features, increased bucket capacities and new fuel-saving technologies. All three new models are available with a high-lift option for additional dump height and reach. The new Doosan DL200-7 wheel loader features a hydrostatic drive system for enhanced fuel efficiency, machine positional control and reduced wear on the brakes.

A large orange Doosan log loader is shown in a forest, processing a large log. The machine is equipped with a red grapple and is positioned on a pile of logs. The background is a dense forest of tall evergreen trees.

COMPANY INFORMATION

Business: Hielt Logging, Inc.

In business since: 1953

Location: Washington state

Doosan equipment: DX225LL

and DX300LL log loaders

Doosan dealer: Cascade Trader

THREE GENERATIONS OF LOGGERS FIND SUCCESS IN WASHINGTON

While on a trip to Washington state, between the lush scenery and beams of sunlight you may spot a crew of loggers processing and stacking logs in one of many state forests. That crew may belong to Hielt Logging, Inc.

Founded by Roy Hielt in 1953, Hielt Logging is a third-generation timber company. The company began in Washington, where it continues to

harvest trees. The company specializes in clear-cut logging, road maintenance, removing hazardous trees for homeowners and new home site prep work.

Roy Hielt eventually passed the business down to his son, Jeff, who now assists his own son, Shane, with the business. "I've been in the business for my whole life," Jeff says.

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Pictured left to right: Shane and Jeff Hiatt of Hiatt Logging

Hiatt Logging is based in Skagit County, approximately 100 miles north of Seattle. Most days, the team harvests trees at a designated tract or clear-cut area. The company produces sawlogs, which are transported by truck to a pulp mill for processing, and logs that are made into telephone poles.

LOGGING CHALLENGES

As a small, family-owned business, Hiatt Logging prioritizes customer satisfaction. Often, when picking up jobs, the team is dealing directly with the landowners who hire them.

“We want to make sure that the people we work for are happy with the quality of work we do,” Shane says. “We do what we can within our limits to make that happen.”

Over the past couple of years, Hiatt says, the forestry industry in the Northwest has been unpredictable. With only two major sawmills in his area, it can be challenging to find work. When preparing for winter, many landowners don’t contract for erosion control or road maintenance.

“A job that we completed last fall was something that is a little further away than our usual area, but we didn’t have much else to go to,” Shane says.

That job was located at Stossel Creek in Duvall, Washington, about 40 miles from Seattle. The specific site was located two miles into the forest, over gravel roads. Owned by the government, it’s billed as a “forest for the future” — used for both recreation and logging.

Stossel Creek covers a total of 154 acres and features walking and biking trails. The patch of land that Hiatt Logging employees worked on was roughly 10 acres. Their log loaders worked on an incline, with harvested logs landing near the bottom to be collected.

For this project, the typical workday for the Hiatt Logging employees began early in the morning, with their Doosan® log loaders processing and stacking logs well before 8 a.m. Throughout the day, trucks rolled in to haul away the logs for finishing at the

“

WE WANT TO MAKE SURE THAT THE PEOPLE WE WORK FOR ARE HAPPY WITH THE QUALITY OF WORK WE DO.

— SHANE HIETT / Hiatt Logging

”

processing facility. You could find Shane Hiatt assisting wherever he was needed, whether that was helping to secure the harvested logs on the trucks or showing a new hire around the site.

With this project, Shane acknowledged that he and his team would not be the last people working in this field once they finished the project. Washington has some of the strictest forestry laws in the country. A harvested area of a forest must be replanted within three years.

“Someone will come by and replant, allowing for the growth to continue,” Shane says.

DOOSAN ENTERS THE PICTURE

Hiatt Logging is no stranger to Doosan equipment. In 2013, the company purchased a DX300LL log loader from Cascade Trader in Chehalis, Washington. Hiatt Logging employees mounted a processing head to the log loader, and the machine became their No. 1 processor.



A durable and dependable machine, the DX300LL log loader is well suited for all-day forestry work. It features a fully guarded, heavy-duty undercarriage and upper structure designed specifically for forestry applications. A raised cab provides enhanced visibility of the area, and a standard rearview camera enables operators to check what's behind them while they're working.

"We were in the market for something new and we wanted something that was capable of doing the job," Shane says. "We figured it was the most bang for our buck."

"Doosan has been really good for us," Jeff adds.

Extended maintenance intervals and easy access to service points increase machine uptime and productivity for the log loader. Examples include centralized grease points, wide side-access doors for cleaning the cooling system, boom pivot bushings with greasing intervals, and a large-capacity engine air precleaner that removes more than 99% of airborne particles and extends filter cartridge service life.

Hiett Logging also owns a DX225LL log loader, mostly used to move and stack the logs.

The operators enjoy the comfortable cab with ample foot space and good visibility. Combining the log loader grapple and live heel, operators can efficiently lift, move and stack logs, as well as load them onto trucks.

Shane estimates their Doosan log loaders have more than 12,000 hours on them.

"We've had a few issues here and there, but compared to some of the other brands of equipment we've had and used, we've had really good luck with these," Shane says.

On an occasion when one of their Doosan machines needed a part replaced, Hiatt Logging's dealer was there to support the business. Their primary contact at the dealership is Shannon Pesicka.

"Our salesman will come at the drop of a hat if we need something," Shane says. "And we're a three-hour drive from the dealership."

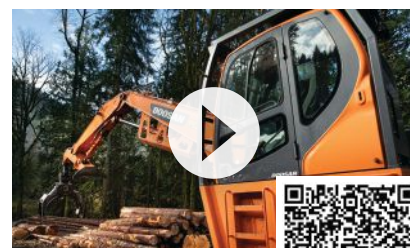
A FAMILY AFFAIR

Despite the challenges that the logging industry faces, Shane knew from a young age that he wanted to one day take over the family business. Growing up, he assisted on projects after school and on weekends.

"I officially started when I was 18," Shane says. "Sometimes, I run one crew while my dad runs the other. Sometimes I turn wrenches. I do whatever needs to be done to keep things flowing in the right direction."

Shane and his wife welcomed a baby boy in 2021. And while he says that he won't push his son into the family business, his son is sure to grow up around logs. With a strong crew and dependable machines, Shane is confident that the family business will continue to grow for years to come.

"The team wants to do a good, quality job. We enjoy what we do," Shane says.



See Hiatt Logging's Doosan log loaders in action. Visit na.DoosanEquipment.com/HiattLogging



DOOSAN EXCAVATORS STAND UP TO LAND-CLEARING TESTS

COMPANY INFORMATION

Business: Wherry Truck Lines

In business since: 1992

Location: Fort Myers, Florida

Doosan equipment: DX225LC-5
and DX350LC-5 excavators

Doosan dealer: Synergy Equipment



Kendell Wherry

If there is one application that tests construction equipment, it's land clearing. Add the extreme summer heat and humidity of Florida, and you have quite a bit of adversity facing a company like Wherry Truck Lines.

Kendell Wherry, the owner of Wherry Truck Lines, is no stranger to clearing land in Florida. He's been in the business for more than 30 years. What sets Wherry Truck Lines apart from similar companies is Kendell's determination to succeed and a fleet of reliable and durable construction equipment.

"Wherry Truck Lines started as a contract hauler, hauling bulk mulch and flatbed loads of trees in the beginning, and it has evolved to a company that has roll-off service, grapple service, land-clearing service and timber harvesting," Kendell says. "We have three harvesting crews, do contract grinding and contract screening, and produce compost. We run about 40 trucks between our grapple trucks, our roll-off trucks and our road tractors. And we have about a hundred trailers."

Much of the company's work is on large land-clearing projects. The company's harvesting crews use construction equipment to clear areas for future development. The company works mostly in Lee and Collier counties, where Fort Myers and Naples are located. Developers are building numerous new communities and commercial buildings in this popular vacation destination.

WORKHORSES

On any land-clearing project, contractors operate crawler excavators to do the bulk of the hard work. Excavators paired with buckets and thumbs knock down trees and lift and place the trees in grinders or into trucks.

"You can't get much more unforgiving to a machine than land clearing," Kendell says. "You're pulling, you're tugging, and there's still a lot of forces working against the machine."

Kendell's company relies on a fleet of Doosan® crawler excavators. These include DX225LC-5





and DX350LC-5 excavators purchased from Synergy Equipment in Fort Myers.

“We have 11 Doosan DX225LC-5 excavators,” Kendell says. “They’re not too big, they’re not too heavy, and they’re good production machines. We can do a lot of work with them: clear land, feed grinders, feed screeners and load trucks. So they’re very convenient machines for our application. The DX225LC-5 is the workhorse excavator that is getting

it done just about every day. It’s very deployable and easy to maneuver.”

The company’s relationship with Synergy Equipment started in 2014. According to Kendell, the salesman from Synergy visited one of the company’s jobsites and wanted to introduce himself. He also wanted to introduce the dealer’s newest product line — Doosan — to Kendell.

The introduction went well. Kendell rented a Doosan excavator from the dealership, and the machine filled his needs at the time. His positive experience with the sales and rental staff and how they met his needs led to the company purchasing its first DX225LC-5 excavator.

“As we were looking to buy excavators and looking for a relationship with a dealer, we were experimenting with different sizes of machines, and the 225 class machine proved to be the size machine that would fit more applications than anything else,” Kendell says. “It’s not too big, not too small, easy to maneuver and get on the lowboys, and you can transport it easily. It’s the get-it-done type of machine. So we started with one, one went to two, two went to four, and our current fleet of the Doosan DX225LC-5 excavators is 11.”

DEALER SUPPORT

Standing behind Kendell and his employees are the team members at Synergy Equipment.

“With any type of equipment, there are going to be issues. Having said that, we have reached out to our dealer and our salesmen to voice concerns,” Kendell says. “The folks at Synergy have gone right to Doosan to get product support and attention to some of the issues that have caused problems. They stepped up to the plate and haven’t run, and that builds customer satisfaction and loyalty to the Doosan product.”

Kendell’s philosophy about warranties is that when buying new machines, always go for the most extensive powertrain warranty that is offered by the dealer. He says, “We feel that it’s a good investment in the product because out here, time is money. You have to produce.”



See Wherry Truck Lines’
Doosan machines in action at
na.DoosanEquipment.com/Wherry



COMPANY INFORMATION

Business: Synergy Contracting

In business since: 2003

Location: Altoona, Iowa

Doosan equipment: DX35-5, DX50-5K and DX85R-3 mini excavators; DX140LCR-5, DX235LCR-5, DX300LC-5, DX350LC-5, DX420LC-5 and DX530LC-5 crawler excavators; DL220-7 and DL280-7 wheel loaders

Doosan dealer: RTL Equipment

ON THE JOBSITE WITH SYNERGY CONTRACTING

It was a cold December morning in 2021 as workers took advantage of unseasonably dry weather to wrap up a collection system and lift station project in Mitchellville, Iowa. Five Doosan® excavators worked in tandem; the orange machines standing out against the dull winter background of brown, leafless trees.

Des Moines, Iowa, and surrounding communities are recognized in the lists of fastest-growing metropolitan areas. Bedroom communities adjacent to the capital city have experienced year after year of record-breaking population growth. As the metropolitan area continues to expand, Mitchellville — once an outlier —



is experiencing population growth as more commuters choose the perks of a small town while living with easy access to a nearby big city.

Construction firms like Synergy Contracting directly benefit from this continued growth. The Altoona, Iowa-based site utility and horizontal directional drilling contractor has plenty of work to keep its crews busy. In 2021, the company decided to switch from another brand of heavy equipment and go “all in” on the Doosan brand of construction equipment. The firm’s Doosan fleet includes a wide variety of crawler and mini excavators, as well as wheel loaders. The excavators were indispensable last

December as the company worked feverishly to finish the Mitchellville project before year-end.

“The City of Mitchellville project brought all of our different skill sets into play in one project,” says Brandan Smith, chief operating officer at Synergy Contracting. He’s been with the company since 2010 and oversees the day-to-day operations to ensure they stay on schedule.

“That was a project where we built a lift station from the ground up,” Brandan says. “We installed a good amount of open cut sanitary sewer and force main. We utilized our company’s directional boring expertise, and we were able to have our structure crews build a cast-in-place box culvert.”

According to the bid specs, Synergy was hired by the city to install 2,850 linear feet of 10-inch force main, 2,500 linear feet of 12-inch sanitary sewer and 540 linear feet of 8-inch sanitary sewer. The project also called for manholes, sanitary sewer services and reconnections, connections to the city’s existing system, and 90 linear feet of 5x4 reinforced concrete box culvert.

FROM MINI TO HEAVY-DUTY EXCAVATORS

Working in locations from homeowners’ backyards to the larger open-cut portions of the project meant a variety of construction equipment was needed.

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“ SYNERGY IS BRINGING EVERYTHING TOGETHER, MULTIPLE PIECES FOR THE GREATER GOOD, AND THAT’S WHAT WE DO.

— **BRANDAN SMITH** /
Synergy Contracting

Synergy Contracting operated both mini excavators and large crawler excavators during various stages of the pipe and structural concrete work. Brandon, along with owner Jesse Rognes, partnered with RTL Equipment in Grimes to secure the right machines for the tasks.

For most of the excavation and open-cut areas work, Doosan® DX530LC-5, DX350LC-5 and DX235LCR-5 crawler excavators were utilized. For the smaller, more confined spaces on homeowner properties, Synergy Contracting relied on Doosan DX85R-3 and DX35-5 mini excavators. The excavators were outfitted with both buckets and plate compactors,

adding the versatility needed to help the project stay on schedule. Although Synergy Contracting was fairly new to the Doosan brand, the compact and heavy construction equipment impressed them.

“They’re efficient, quick machines,” Brandon says. “They hold up and are durable. And the overall visibility allows me to see everything around me. Also, we appreciate the customer service that we receive from RTL Equipment and being taken care of by Devin, the salesman.”

The trio of large crawler excavators worked efficiently to backfill the area where the box culvert would be installed. After material was placed by an excavator’s bucket, a second machine with a plate compactor followed to compact the material. All of this was going on while employees worked carefully around existing utilities that were exposed during the excavation process.

“We have to make sure that we don’t cause any damage to the existing utilities in the ground,” Brandon says. “It’s one of those hurdles that we have to go through daily. We spend a lot of time and effort trying to protect the existing utilities.”

Synergy Contracting crews operated the Doosan mini excavators and installed the 4-inch service pipe that runs to the homeowners’ residences. Operators also used the mini excavators toward the end

of the project to trench for underground drainage away from some of the homes.

As the project neared its end, Synergy Contracting hired a subcontractor to do the final step of paving the streets: Choice Concrete out of Altoona.

“We really used everyone on our team for that project to get it done,” he says. “It was a tough job, but with everybody that we have and the skilled people, it went pretty smoothly.

“Synergy is bringing everything together, multiple pieces for the greater good, and that’s what we do,” Brandon says. “We’ve completed a lot of jobs that we’ve never done before, just because they’re very unique, and we take those on and seem to do well with them. To sum it up, we specialize in the tough stuff, whatever that may be.”

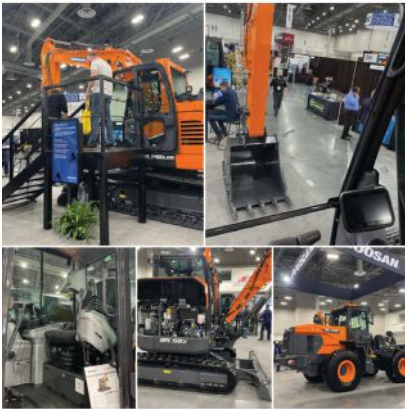


See Synergy Contracting and its Doosan excavators in action at na.DoosanEquipment.com/SynergyContracting



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PRODUCT SPECIFICATIONS



ARTICULATED DUMP TRUCKS

	PAYLOAD	BODY CAPACITY* HEAPED	RATED POWER GROSS
DA30-5	61,729 lb. (28,000 kg)	22.0 yd ³ (16.8 m ³)	375 hp (276 kW)
DA45-5	90,390 lb. (41,000 kg)	31.9 yd ³ (24.4 m ³)	500 hp (368 kW)

* Without tailgate

CRAWLER EXCAVATORS



	OPERATING WEIGHT	BUCKET CAPACITY HEAPED, ISO/SAE	RATED POWER GROSS
DX140LC-5	32,783 lb. (14,870 kg)	0.48 yd ³ (0.37 m ³)	115 hp (86 kW)
DX140LCR-5	34,987 lb. (15,870 kg)	0.51 yd ³ (0.39 m ³)	115 hp (86 kW)
DX170LC-5	38,376 lb. (17,407 kg)	0.86 yd ³ (0.66 m ³)	131 hp (98 kW)
DX180LC-5	43,224 lb. (19,610 kg)	0.92 yd ³ (0.70 m ³)	131 hp (98 kW)
DX225LC-5*	52,086 lb. (23,626 kg)	1.20 yd ³ (0.92 m ³)	166 hp (124 kW)
DX235LCR-5	56,019 lb. (25,410 kg)	1.20 yd ³ (0.92 m ³)	189 hp (141 kW)
DX255LC-5	57,752 lb. (26,196 kg)	1.44 yd ³ (1.10 m ³)	189 hp (141 kW)
DX300LC-5*	68,764 lb. (31,191 kg)	1.66 yd ³ (1.27 m ³)	271 hp (202 kW)
DX350LC-5	80,689 lb. (36,600 kg)	1.95 yd ³ (1.49 m ³)	286 hp (213 kW)
DX420LC-5	94,799 lb. (43,000 kg)	2.49 yd ³ (1.90 m ³)	345 hp (257 kW)
DX490LC-5K	112,203 lb. (50,894 kg)	2.80 yd ³ (2.14 m ³)	380 hp (283 kW)
DX530LC-5K*	116,576 lb. (52,878 kg)	3.13 yd ³ (2.39 m ³)	380 hp (283 kW)
DX800LC-7	181,000 lb. (82,100 kg)	5.10 yd ³ (3.90 m ³)	539 hp (402 kW)

LC = Long Carriage LCR = Long Carriage Reduced Tail Swing * = Super-Long-Reach (SLR) option available



WHEEL EXCAVATORS

	OPERATING WEIGHT	BUCKET CAPACITY HEAPED, ISO/SAE	RATED POWER GROSS
DX140W-5	34,203 lb. (15,514 kg)	0.73 yd ³ (0.56 m ³)	137 hp (102 kW)
DX190W-5	43,431 lb. (19,700 kg)	1.05 yd ³ (0.80 m ³)	174 hp (129 kW)
DX210W-5	47,179 lb. (21,400 kg)	1.12 yd ³ (0.86 m ³)	189 hp (141 kW)

MINI EXCAVATORS



	OPERATING WEIGHT	BUCKET CAPACITY HEAPED, ISO/SAE	RATED POWER GROSS
NEW DX27Z-7	6,155 lb. (2,792 kg)	0.08 yd ³ (0.06 m ³)	25 hp (19 kW)
NEW DX35Z-7	8,807 lb. (3,995 kg)	0.14 yd ³ (0.11 m ³)	25 hp (19 kW)
DX42-5K	10,114 lb. (4,588 kg)	0.19 yd ³ (0.15 m ³)	43 hp (31 kW)
NEW DX50Z-7	11,971 lb. (5,430 kg)	0.21 yd ³ (0.16 m ³)	49 hp (37 kW)
NEW DX55R-7	12,655 lb. (5,740 kg)	0.21 yd ³ (0.16 m ³)	49 hp (37 kW)
DX62R-3	13,799 lb. (6,259 kg)	0.23 yd ³ (0.17 m ³)	59 hp (44 kW)
DX63-3	13,799 lb. (6,259 kg)	0.23 yd ³ (0.17 m ³)	59 hp (44 kW)
DX85R-3	18,960 lb. (8,600 kg)	0.37 yd ³ (0.28 m ³)	59 hp (44 kW)



WHEEL LOADERS

	BUCKET CAPACITY HEAPED, ISO/SAE	TIPPING LOAD, STATIC FULL TURN	RATED POWER GROSS
DL200-7*	2.6 yd ³ (2.0 m ³)	19,705 lb. (8,938 kg)	142 hp (106 kW)
DL200TC-5	2.6 yd ³ (2.0 m ³)	16,625 lb. (7,540 kg)	142 hp (106 kW)
DL220-7*	3.0 yd ³ (2.3 m ³)	20,461 lb. (9,281 kg)	160 hp (119 kW)
DL250-7*	3.3 yd ³ (2.5 m ³)	21,134 lb. (9,586 kg)	172 hp (128 kW)
DL250TC-5	3.3 yd ³ (2.5 m ³)	20,723 lb. (9,400 kg)	172 hp (128 kW)
DL280-7*	3.7 yd ³ (2.8 m ³)	27,064 lb. (12,276 kg)	189 hp (141 kW)
DL320-7*	4.2 yd ³ (3.2 m ³)	34,496 lb. (15,647 kg)	271 hp (202 kW)
DL380-7*	4.8 yd ³ (3.7 m ³)	36,198 lb. (16,419 kg)	271 hp (202 kW)
DL420-7*	5.5 yd ³ (4.2 m ³)	42,719 lb. (19,377 kg)	345 hp (257 kW)
DL480-7*	6.3 yd ³ (4.8 m ³)	45,323 lb. (20,558 kg)	345 hp (257 kW)
DL550-7*	6.8 yd ³ (5.2 m ³)	53,273 lb. (24,164 kg)	380 hp (283 kW)
DL580-7	8.4 yd ³ (6.4 m ³)	60,550 lb. (27,465 kg)	394 hp (294 kW)

TC = Tool Carrier * = High-Lift (HL) option available

LOG LOADERS



	OPERATING WEIGHT	SWING TORQUE	RATED POWER GROSS
DX225LL-5	68,784 lb. (31,200 kg)	69,623 lbf.-ft. (9,626 kgf-m)	167 hp (124 kW)
DX300LL-5	81,703 lb. (37,060 kg)	87,787 lbf.-ft. (12,137 kgf-m)	271 hp (202 kW)
DX380LL-5	113,538 lb. (51,500 kg)	129,876 lbf.-ft. (17,956 kgf-m)	317 hp (237 kW)

	OPERATING WEIGHT	BUCKET CAPACITY HEAPED, ISO/SAE	RATED POWER GROSS
DX225LL-5*	63,714 lb. (28,900 kg)	1.2 yd ³ (0.92 m ³)	166 hp (124 kW)
DX300LL-5*	82,012 lb. (37,200 kg)	2.1 yd ³ (1.60 m ³)	271 hp (202 kW)
DX380LL-5*	108,699 lb. (49,300 kg)	2.4 yd ³ (1.80 m ³)	318 hp (237 kW)

LL = Log Loader * = Road Builder configuration



MATERIAL HANDLERS

	OPERATING WEIGHT	MAX. REACH GROUND	RATED POWER GROSS
DX225MH-5	60,848 lb. (27,600 kg)	35 ft. 5 in. (10,800 mm)	166 hp (124 kW)
DX250WMH-5	57,221 lb. (25,955 kg)	35 ft. 2 in. (10,720 mm)	189 hp (141 kW)
DX300MH-5	79,366 lb. (36,000 kg)	42 ft. 7 in. (13,000 mm)	271 hp (202 kW)

MH = Material Handler WMH = Wheel Material Handler



DOZERS

	OPERATING WEIGHT	BLADE CAPACITY	RATED POWER GROSS
NEW DD100	25,309 lb. (11,480 kg)	3 yd ³ (2.3 m ³)	122 hp (91 kW)

NOTE — Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. Pictures of Doosan® equipment may show other than standard equipment. All dimensions are shown in inches. Respective metric dimensions are enclosed by parentheses. Doosan Infracore North America equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008. All dimensions are given for the standard configuration unless otherwise noted.



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